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EXAMINER

DANG, THANH HA T

ART UNIT PAPER NUMBER

2163

DATE MAILED: 06/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/780,123

Applicant(s)

LECHELER-MOORE ET AL.

Examiner

Thanh-Ha Dang

Art Unit

2163

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 08 February 2001.  
2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-11 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.  
10) ☒ The drawing(s) filed on 08 February 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 02/08/01.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

1. Claims 1-11 are rejected in this Office Action.

### ***Claim Rejections - 35 USC § 101***

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 7 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 7 recites a computer program comprising "a preprocessing module ..." and "a transforming module ...". The claim as a whole is directed to Functional Descriptive Material, which is non-statutory subject matter. The claimed invention is not tangibly embodied in some form of computer medium for the reason set forth above, and therefore does not provide the necessary functional and structural interrelationship to satisfy the requirements of 35 U.S.C. 101.

### ***Claim Objections***

3. Claims 1-3, 5, 7, 9 and 11 are objected to because of the following informalities:
  - RDBMS: abbreviation may render the claim indefinite. Preferably, all acronyms need to spell out in full. Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements: "... the source system to **link** related ...", such omission amounting to a gap between the elements.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-11 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,510,432 issued to Ronald Patrick Doyle ("Doyle").

As to Claim 1, Doyle teaches “a method used in a computer system for creating from operational data an historical data warehouse containing subject-oriented data, comprising:

a) obtaining operational data from a source system” (Figure 1, wherein block20 obtains operational data from a source system, column 4, lines 40-53);

“b) pre-processing said obtained operational data by a stepwise operation, wherein only the last operated upon data is recorded” (Figures 4-5 illustrate the stepwise operation to obtain operational data wherein only the last operated upon data is recorded, column 7, lines 30-60 and column 8, lines 42-53);

“c) transforming said pre-processed data into subject-oriented data by utilizing reusable primary keys and RDBMS dates in an operating system of the source system to link related pre-processed data” (Figure 4, column 7, lines 61-67 and column 8, lines 1-53, wherein a web page link or its Uniform Resource Identifier/Locator (URI/URL) represents the reusable primary key; wherein each web page topic represents a subject-oriented data); and

“d) storing said subject-oriented data in the historical data warehouse” (column 4, lines 54-62, wherein block24 stores the content which is equivalent to a said subject-oriented data, and the database or data repository represents a historical data warehouse).

As to Claim 2, Doyle teaches "a method used in a computer system for creating from operational data records an historical data warehouse containing related subject-oriented data records, comprising:

a) obtaining operational data records from a source system" (Figure 1, wherein block20 obtains operational data records (wherein each topic represents a data record) from a source system, column 4, lines 40-53);

"b) pre-processing said obtained operational data records to generate pre-processed data records, wherein said pre-processing comprises operating on each operational data record in a serial manner, adding new data to an immediately prior operated-on record with an entry being recorded only for the last serially operated-on record" (Figures 4-5 illustrate the operation on each operational data record in a serial manner including adding new data to an immediately prior operated-on record with an entry being recorded only for the last serially operated on record, column 7, lines 30-60 and column 8, lines 42-53);

"c) transforming said pre-processed data records into related subject-oriented data records, wherein said transforming comprises linking related pre-processed data records together by means of reusable primary keys on said source system and dates within an RDBMS in an operating system of said source system" (Figure 4, column 7, lines 61-67 and column 8, lines 1-53, wherein a web page link or its Uniform Resource Identifier/Locator (URI/URL) represents the reusable primary key); and

"d) storing said related subject-oriented data records in the historical data warehouse" (column 4, lines 54-62, wherein block24 stores the content which is equivalent to a said related subject-oriented data record, and the database or data repository represents a historical data warehouse).

As to Claim 3, Doyle teaches "dates within said RDBMS in said operating system of said source system are obtained by trigger or log-scraping of said RDBMS" (column 8, lines 34-41, wherein a timestamp provides date, wherein a criteria acts equivalently to a trigger or log-scraping).

As to Claim 4, Doyle teaches "the step of accessing the historical data warehouse by standard viewing means" (column 9, lines 36-38, wherein a web browser is an example of a standard viewing means).

As to Claim 5, Doyle teaches "a method used in a computer system for creating from operational data records an historical data warehouse containing related subject-oriented data records, comprising:

a) obtaining operational data records from a legacy source system" (Figure 1, wherein block20 obtains operational data records (wherein each topic represents a data record) from a source system, column 4, lines 40-53);

"b) pre-processing said obtained operational data records to generate pre-processed data records, wherein said pre-processing comprises operating on each operational data record in a stepwise manner, adding new data to an immediately prior operated-on record with an entry being recorded only

for the record having the last stepwise operation” (Figures 4-5 illustrate the operation on each operational data record in a stepwise manner including adding new data to an immediately prior operated-on record with an entry being recorded only for the record having the last stepwise operation, column 7, lines 30-60 and column 8, lines 42-53);

“c) transforming said pre-processed data records into related subject-oriented data records, wherein said transforming comprises linking related pre-processed data records together by means of reusable primary keys on said source system and dates obtained by trigger or log-scraping an RDBMS in an operating system of said legacy source system” (Figure 4, column 7, lines 61-67 and column 8, lines 1-53, wherein a web page link or its Uniform Resource Identifier/Locator (URI/URL) represents the reusable primary key; wherein the search criteria and the timestamp acts equivalently to a trigger or log-scraping); and

“d) storing said related subject-oriented data records in the historical data warehouse” (column 4, lines 54-62, wherein block24 stores the content which is equivalent to a said related subject-oriented data record, and the database or data repository represents a historical data warehouse).

As to Claim 6, Doyle teaches “the step of accessing the historical data warehouse by standard viewing means” (column 9, lines 36-38, wherein a web browser is an example of a standard viewing means).



As to Claim 7, Doyle teaches "a computer program that generates from operational data from a source system an historical data warehouse containing subject-oriented data, comprising:

a) a preprocessing module, wherein said preprocessing module obtained said operational data by a stepwise operation, wherein only the last operated upon data is recorded" (Figures 4-5 illustrate the operation on operational data by a stepwise operation wherein only the last operated upon data is recorded, column 7, lines 30-60 and column 8, lines 23-53); and

"b) a transforming module, wherein said transforming module transform said preprocessed data into subject-oriented data by utilizing reusable primary keys on the source system and RDBMS dates in an operating system of the source system to link related preprocessed data" (Figure 4, column 7, lines 61-67 and column 8, lines 1-53, wherein a web page link or its Uniform Resource Identifier/Locator (URI/URL) represents the reusable primary key; wherein each web page topic represents a subject-oriented data).

As to Claim 8, Doyle teaches "a storage module for storing said subject-oriented data in an easily accessible format" (column 3, lines 32-47, wherein computer programming languages cited create storage module for storing said subject-oriented data in an easily accessible format).

As to Claim 9, Doyle teaches "a computer system used to create from operational data records an historical data warehouse containing related subject-oriented data records, comprising:

a) means for obtaining operational data records from a source computer system" (Figure 1, wherein block20 provides a means for obtaining operational data from a source computer system, column 4, lines 40-53);

"b) pre-processing means for pre-processing said obtained operational data records to generate pre-processed data records, wherein said pre-processing means operates on each operational data record in a serial manner, adding new data to an immediately prior operated-on record with an entry being recorded only for the last serially operated-on record" (Figures 4-5 illustrate the operation on each operational data record in a serial manner including adding new data to an immediately prior operated-on record with an entry being recorded only for the last serially operated on record, column 7, lines 30-60 and column 8, lines 42-53);

"c) transforming means for transforming said pre-processed data records into related subject-oriented data records, wherein said transforming means links related pre-processed data records together by means of reusable primary keys on said source computer system and dates within an RDBMS in an operating system of said source computer system" (Figure 4, column 7, lines 61-67 and column 8, lines 1-53, wherein a web page link or its Uniform Resource Identifier/Locator (URI/URL) represents

the reusable primary key; wherein each web page topic represents a subject-oriented data); and

"d) storage means for storing said related subject-oriented data records in the historical data warehouse" (column 4, lines 54-62, wherein block24 stores the content which is equivalent to a said related subject-oriented data record, and the database or data repository represents a historical data warehouse).

As to Claim 10, Doyle teaches "means for accessing the historical data warehouse by standard viewing means" (column 9, lines 36-38, wherein a web browser is an example of a standard viewing means).

As to Claim 11, Doyle teaches "said dates within said RDBMS in said operating system of said source system are obtained by trigger or log-scraping of said RDBMS" (column 8, lines 34-41, wherein a timestamp provides date and time, wherein a criteria which for example defines the topic acts as a trigger or log-scraping).

Art Unit: 2163

***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Ha Dang whose telephone number is 571-272-4033. The examiner can normally be reached on Monday-Friday from 9:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 571-272-4023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thanh-Ha Dang  
Examiner  
Art Unit 2163

  
ALFORD KINDRED  
PRIMARY EXAMINER